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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,521	09/23/2004	Efthimios Papayianis	2002-007	5520
	7590 10/29/200 ACOM-ARDEC	EXAMINER		
ATTN: AMSTI		CLEMENT, MICHELLE RENEE		
BLDG 3 PICATINNY A	RSENAL, NJ 07806-5	ART UNIT	PAPER NUMBER	
			3641	
			MAIL DATE	DELIVERY MODE
			10/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applic	cation No.	Applicant(s)	Applicant(s) PAPAYIANIS, EFTHIMIOS		
		10/71					
Office Action Summary			ner	Art Unit			
		Michel	le (Shelley) Clement	3641			
Period fo	The MAILING DATE of this communica			the correspondence a	ddress		
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statute to reply within the set or extended period for reply will reply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF 67 CFR 1.136(a). In n cation. ory period will apply a by statute, cause the	THIS COMMUNICA o event, however, may a repl nd will expire SIX (6) MONTH application to become ABAN	ATION. y be timely filed IS from the mailing date of this IDONED (35 U.S.C. § 133).			
Status							
2a)⊠	Responsive to communication(s) filed of This action is FINAL . 2b) Since this application is in condition for closed in accordance with the practice	☐ This action allowance exc	is non-final. ept for formal matter	• •	e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 7-11 is/are pending in the app 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 7-11 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are object to restrictio on Papers The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the	m and/or election Examiner.) □ accepted our on to the drawing(on requirement. r b) objected to by (s) be held in abeyance	e. See 37 CFR 1.85(a).	CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	-948)	Paper No(s)/N	nmary (PTO-413) Mail Date rmal Patent Application			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection as necessitated by applicant's amendments.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ingersoll (US Patent # 5,390,604) in view of Cole (US Patent # H776). Ingersoll discloses a method of determining the time to a desired height of burst of a projectile comprising the steps of determining the time that it takes the projectile to reach its apex after launch and calculating the time to the desired time of burst based upon the time. Wherein the time to the desired time of burst is a percentage of the time that it takes the projectile to reach its apex. Although Ingersoll does not expressly disclose the method including measuring the time that it takes the projectile to reach its apogee after launch, Cole does. Cole teaches a method of measuring the time that it takes a projectile to reach its apogee after launch. Ingersoll and Cole are analogous art because they are from the same field of endeavor: projectile fuzes. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the method of measuring the time that it takes a projectile to reach it apogee after launch as suggested by Cole with the method of determining the time to a desired Height of Burst as suggested by Ingersoll. The

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suggestion/motivation for doing so would have been to obtain a faster method of determining the time to a desired height of burst.

4. Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ingersoll in view of Cole as applied to claims 7 and 8 above. Ingersoll and Cole disclose the claimed invention except for the specific percentages and the specific height. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the specific percentages and specific height, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle (Shelley) Clement whose telephone number is 571.272.6884. The examiner can normally be reached on Monday thru Thursday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571.272.6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michelle (Shelley) Clement/ Primary Examiner, Art Unit 3641